

NWEA Math 5th Grade Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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- 1. What is the term for the total amount of space within a three-dimensional object?**
 - A. Area**
 - B. Perimeter**
 - C. Volume**
 - D. Dimension**

- 2. What type of number is described as a number made up of a whole number and a fraction?**
 - A. Decimal**
 - B. Mixed Number**
 - C. Integer**
 - D. Whole Number**

- 3. What term describes a particular day specified as the time something will happen?**
 - A. Schedule**
 - B. Calendar**
 - C. Date**
 - D. Deadline**

- 4. How many feet are in 3 yards?**
 - A. 6 feet**
 - B. 12 feet**
 - C. 9 feet**
 - D. 3 feet**

- 5. What direction do the hands of a clock rotate?**
 - A. Counterclockwise**
 - B. Clockwise**
 - C. Vertical**
 - D. Horizontal**

- 6. What type of angle measures exactly 180 degrees?**
- A. Straight angle**
 - B. Right angle**
 - C. Acute angle**
 - D. Obtuse angle**
- 7. A triangle with exactly two sides that are equal is known as?**
- A. Equilateral triangle**
 - B. Isosceles triangle**
 - C. Scalene triangle**
 - D. Obtuse triangle**
- 8. What is $30 - 14$?**
- A. 12**
 - B. 14**
 - C. 16**
 - D. 18**
- 9. What is the term for the maximum distance people are willing to travel to use a service?**
- A. Distance**
 - B. Range**
 - C. Location**
 - D. Access**
- 10. What genetic term describes the varying nature and severity of the phenotype among individuals?**
- A. Phenotype**
 - B. Variable Expression**
 - C. Genotype**
 - D. Mutation**

Answers

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1. C
2. B
3. C
4. C
5. B
6. A
7. B
8. C
9. B
10. B

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Explanations

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1. What is the term for the total amount of space within a three-dimensional object?

- A. Area**
- B. Perimeter**
- C. Volume**
- D. Dimension**

The term that describes the total amount of space within a three-dimensional object is "volume." Volume measures how much three-dimensional space an object occupies. It is often expressed in cubic units, such as cubic centimeters (cm^3), cubic meters (m^3), or liters, depending on the context. For example, when calculating the volume of a rectangular prism, you would multiply its length, width, and height. This helps illustrate how volume quantifies space in three dimensions, distinguishing it from area, which measures two-dimensional surfaces, and perimeter, which measures the distance around a two-dimensional shape. Dimension, while related, refers to the number of dimensions an object has rather than the space it occupies. Thus, volume accurately represents the concept of space contained within three-dimensional objects.

2. What type of number is described as a number made up of a whole number and a fraction?

- A. Decimal**
- B. Mixed Number**
- C. Integer**
- D. Whole Number**

A mixed number is defined as a number that consists of a whole number part and a fractional part. For example, the number $2 \frac{1}{2}$ is a mixed number because it combines the whole number 2 with the fraction $\frac{1}{2}$. This representation allows for a convenient way to express values that fall between whole numbers, making mixed numbers particularly useful in various mathematical contexts, such as measurement or arithmetic involving fractions. The other options do not accurately reflect this definition: decimals represent fractional values in a different format, integers are whole numbers without any fractional component, and whole numbers encompass all non-negative numbers without fractions or decimals. Therefore, the identification of a mixed number as a combination of a whole number and a fraction is essential in understanding the broader category of numbers utilized in mathematics.

3. What term describes a particular day specified as the time something will happen?

- A. Schedule**
- B. Calendar**
- C. Date**
- D. Deadline**

The term that best describes a particular day specified as the time something will happen is "date." A date is a specific point in time often denoted by day, month, and year on a calendar. It provides an exact reference for when an event or occurrence is scheduled to take place, such as a birthday, meeting, or deadline. While the other options relate to time management, they do not specifically denote the exact day. A schedule outlines a plan for when tasks will occur, a calendar is a system for organizing days, and a deadline refers to the latest time by which something must be completed but does not specifically indicate a singular date. Thus, "date" is the most accurate choice.

4. How many feet are in 3 yards?

- A. 6 feet**
- B. 12 feet**
- C. 9 feet**
- D. 3 feet**

To determine how many feet are in 3 yards, it's important to understand the conversion between yards and feet. One yard is equivalent to 3 feet. Therefore, to find the total number of feet in 3 yards, you would multiply the number of yards by the number of feet per yard: $3 \text{ yards} \times 3 \text{ feet/yard} = 9 \text{ feet}$. Thus, the correct calculation shows that there are 9 feet in 3 yards. This is why the answer indicating 9 feet accurately reflects the correct conversion between the two units of measure.

5. What direction do the hands of a clock rotate?

- A. Counterclockwise**
- B. Clockwise**
- C. Vertical**
- D. Horizontal**

The hands of a clock rotate in a clockwise direction. This means that as time progresses, the minute and hour hands move in a direction that mimics the way the numbers are arranged on the face of the clock. Starting from the 12 at the top, the hands move to 1, then 2, and so on, completing the circle back to 12. This rotation pattern is a fundamental aspect of how clocks are designed and has become a standard reference for understanding direction. Recognizing the clockwise movement helps in various situations, such as telling time or understanding movement in other contexts, like gears and circles. Understanding this concept also aids in grasping other subjects, including geometry and physics, where direction is a crucial component.

6. What type of angle measures exactly 180 degrees?

A. Straight angle

B. Right angle

C. Acute angle

D. Obtuse angle

A straight angle measures exactly 180 degrees. This type of angle is formed when two rays point in opposite directions, creating a straight line. In geometric terms, when you have an angle at this measurement, it splits the line into two equal halves, demonstrating that the sum of the angles on either side of the straight angle is precisely half of a full rotation (360 degrees). This characteristic differentiates it from other angles. For instance, a right angle measures 90 degrees, which is a quarter of a full rotation and indicates a perpendicular intersection of lines. An acute angle measures less than 90 degrees, representing a sharp smaller angle, while an obtuse angle measures more than 90 degrees, representing a wider angle but still less than 180 degrees. Thus, the unique measurement of 180 degrees specifically defines a straight angle.

7. A triangle with exactly two sides that are equal is known as?

A. Equilateral triangle

B. Isosceles triangle

C. Scalene triangle

D. Obtuse triangle

A triangle with exactly two sides that are equal is known as an isosceles triangle. This classification is based on the lengths of the sides rather than the angles. In an isosceles triangle, the two equal sides are referred to as the legs, and the third side is known as the base. This property not only helps in recognizing the triangle type but also leads to some unique characteristics. For example, the angles opposite the equal sides are also equal, which makes it possible to solve for unknown angles when performing geometric calculations. In contrast, an equilateral triangle has all three sides equal, a scalene triangle has all sides of different lengths, and an obtuse triangle contains one angle that is greater than 90 degrees. Thus, understanding these distinctions clarifies why an isosceles triangle is defined specifically by having exactly two sides equal.

8. What is $30 - 14$?

A. 12

B. 14

C. 16

D. 18

To solve the problem $30 - 14$, you are looking for the difference between two numbers: 30 and 14. Start by taking 14 away from 30. You can do this by breaking it down into simpler parts, if that helps. One way to think about it is to subtract 10 from 30 first, which gives you 20, and then subtract the remaining 4 from 20. So, $20 - 4$ equals 16. Therefore, the correct answer to the question $30 - 14$ is 16. This process not only validates the correct answer but also reinforces the concept of subtraction and how you can break it down into smaller steps if needed.

9. What is the term for the maximum distance people are willing to travel to use a service?

- A. Distance
- B. Range**
- C. Location
- D. Access

The correct term for the maximum distance people are willing to travel to use a service is "Range." In this context, range refers to the geographical area surrounding a service that individuals are likely to travel to in order to access it. For instance, a grocery store may have a specific range where customers are willing to drive or walk to purchase their goods. Understanding this concept is essential for businesses, as it helps them determine where to locate new services or stores based on the potential customer base. When analyzing range, factors such as population density, transportation availability, and competition might also play significant roles in influencing how far people are willing to travel.

10. What genetic term describes the varying nature and severity of the phenotype among individuals?

- A. Phenotype
- B. Variable Expression**
- C. Genotype
- D. Mutation

The term that describes the varying nature and severity of the phenotype among individuals is "Variable Expression." This concept refers to the phenomenon where individuals with the same genotype can exhibit different phenotypes in terms of appearance, behavior, or other characteristics. The severity of these traits can also differ, leading to a wide range of possible outcomes. For example, in the case of a genetic disorder, some individuals may show only mild symptoms, while others may experience severe manifestations of the condition. This variability can be influenced by several factors, including environmental influences, interactions with other genes, and epigenetic factors. Understanding variable expression is important in genetics as it helps researchers and healthcare professionals predict the impact of genetic disorders on individuals. In contrast, the other options refer to different concepts: "Phenotype" describes the observable traits of an organism, while "Genotype" refers to its genetic makeup. "Mutation" is a change in the DNA sequence that can lead to changes in the phenotype, but it does not specifically address the variability of phenotypes among individuals.

Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://nweamath5thgrade.examzify.com>

We wish you the very best on your exam journey. You've got this!

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